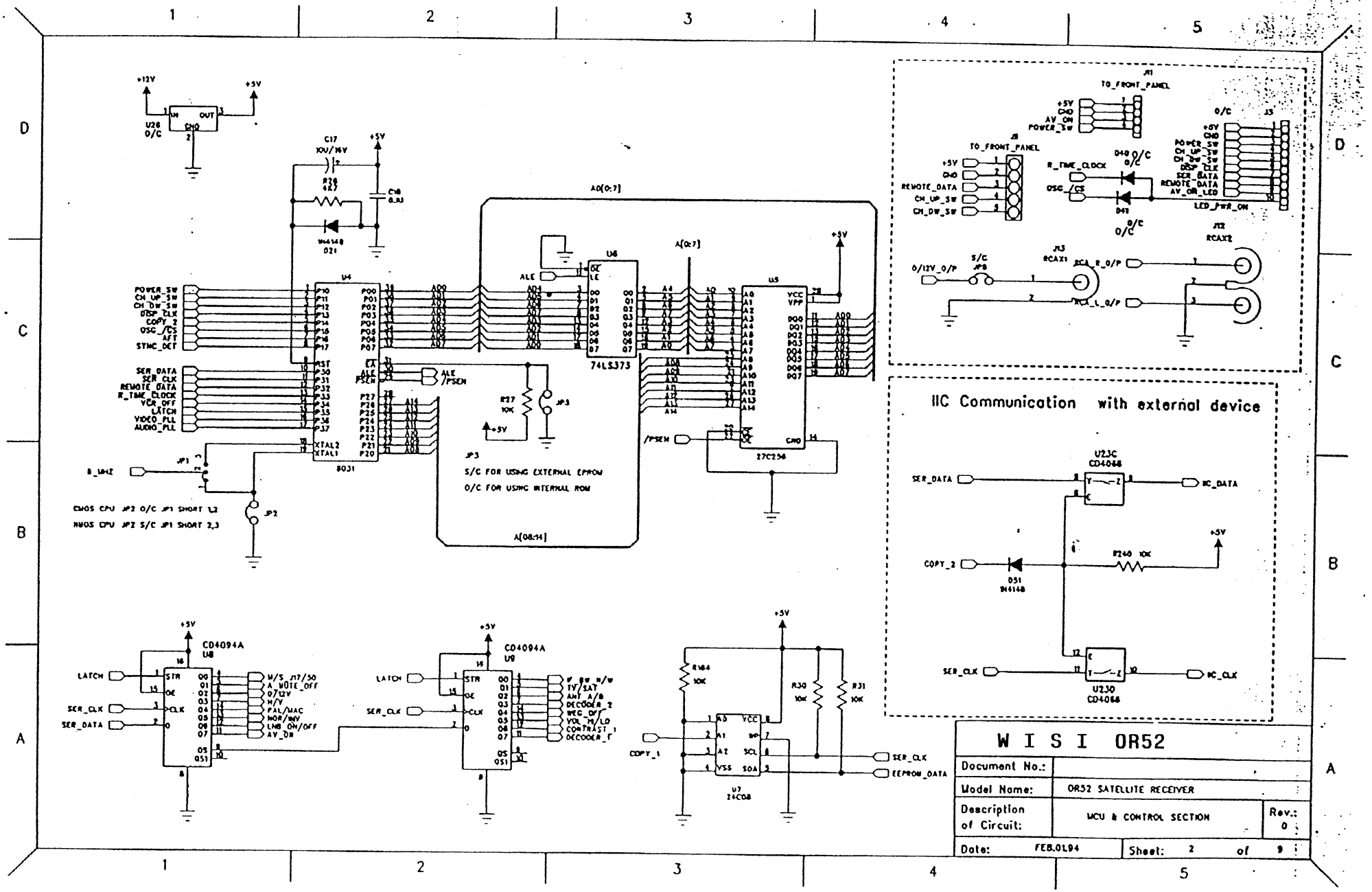
SERVICE MANUAL

WISI

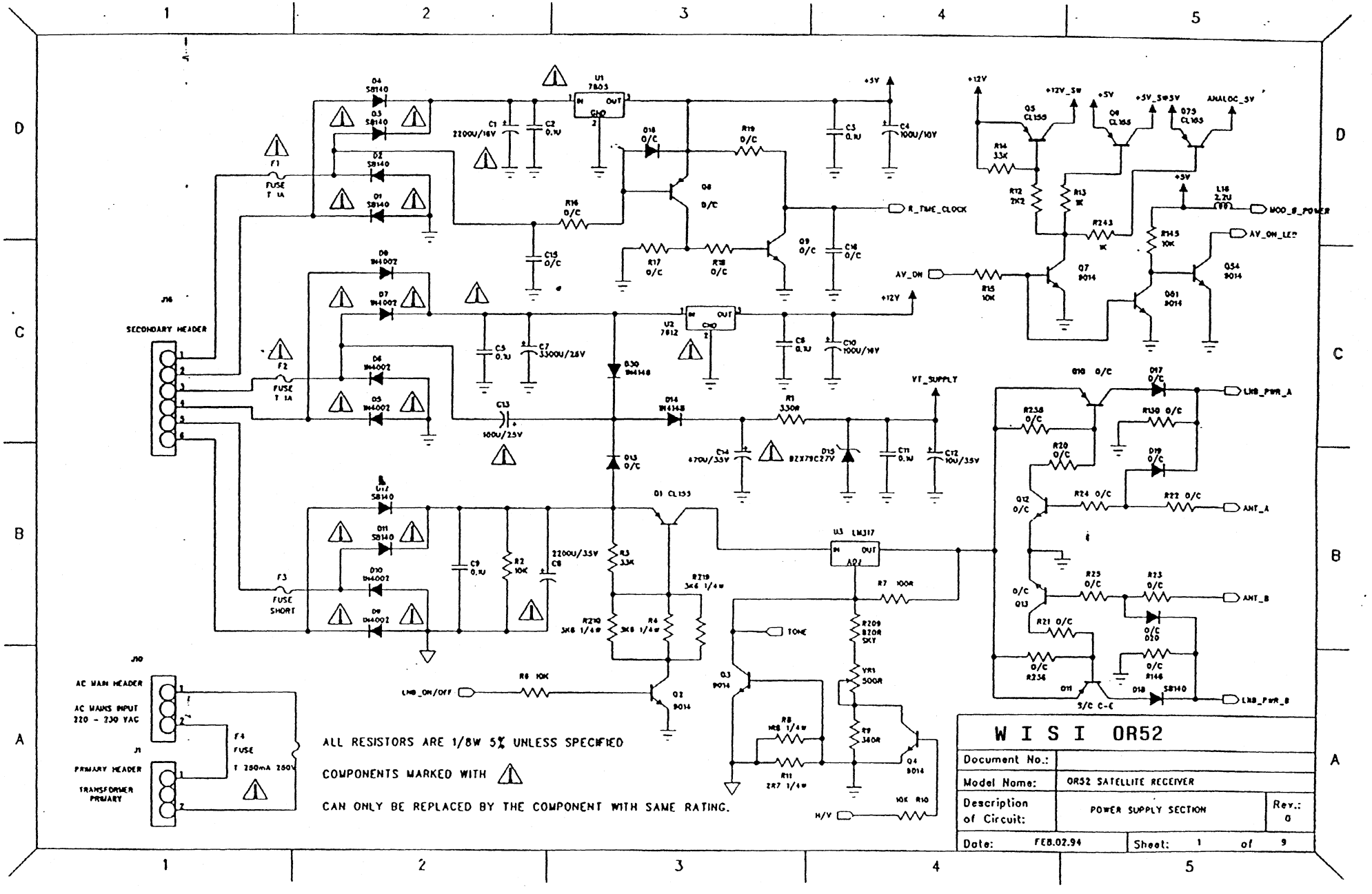
OR 52
SATELLITENRCEIVER

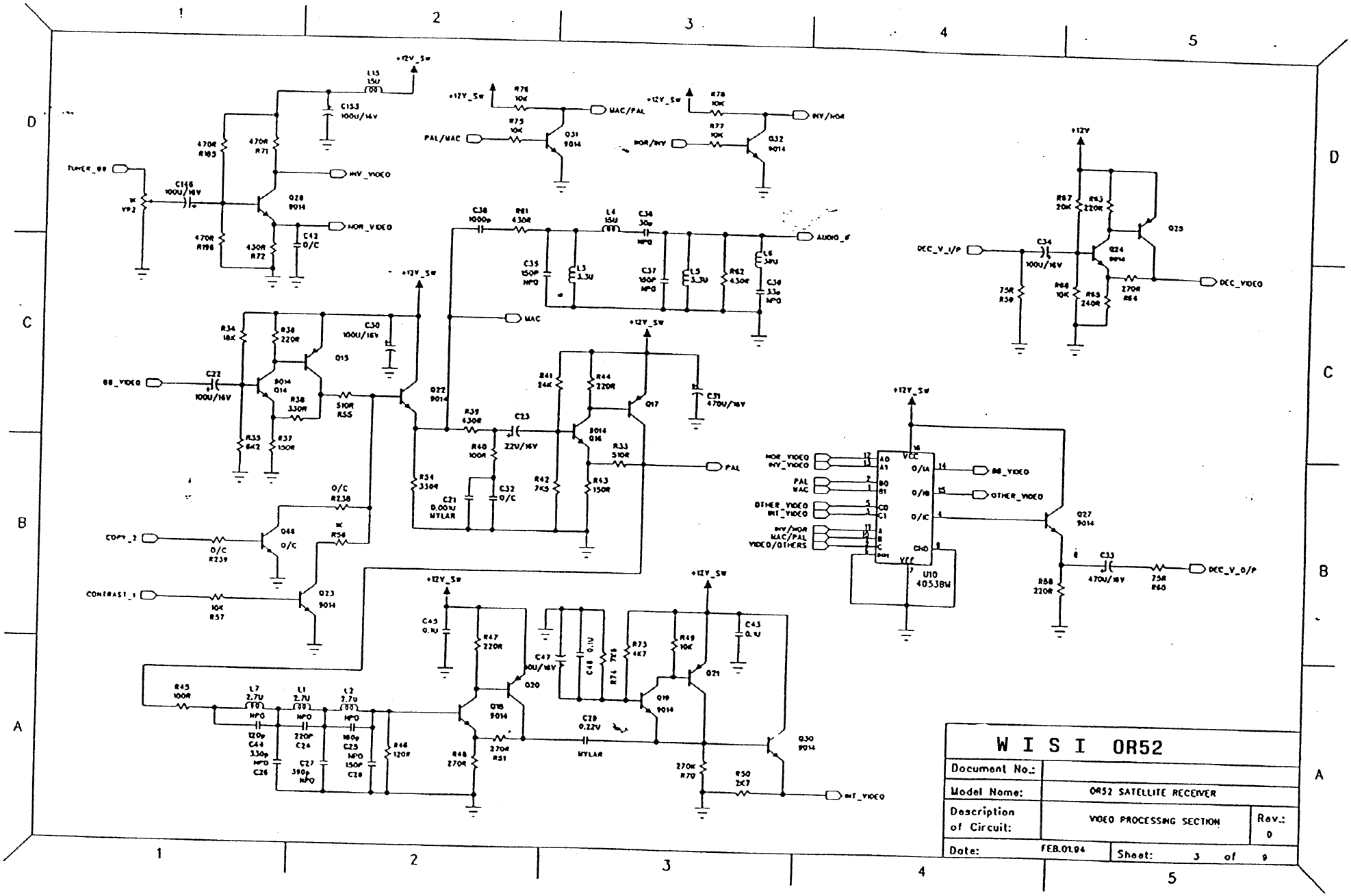
LfdNr.

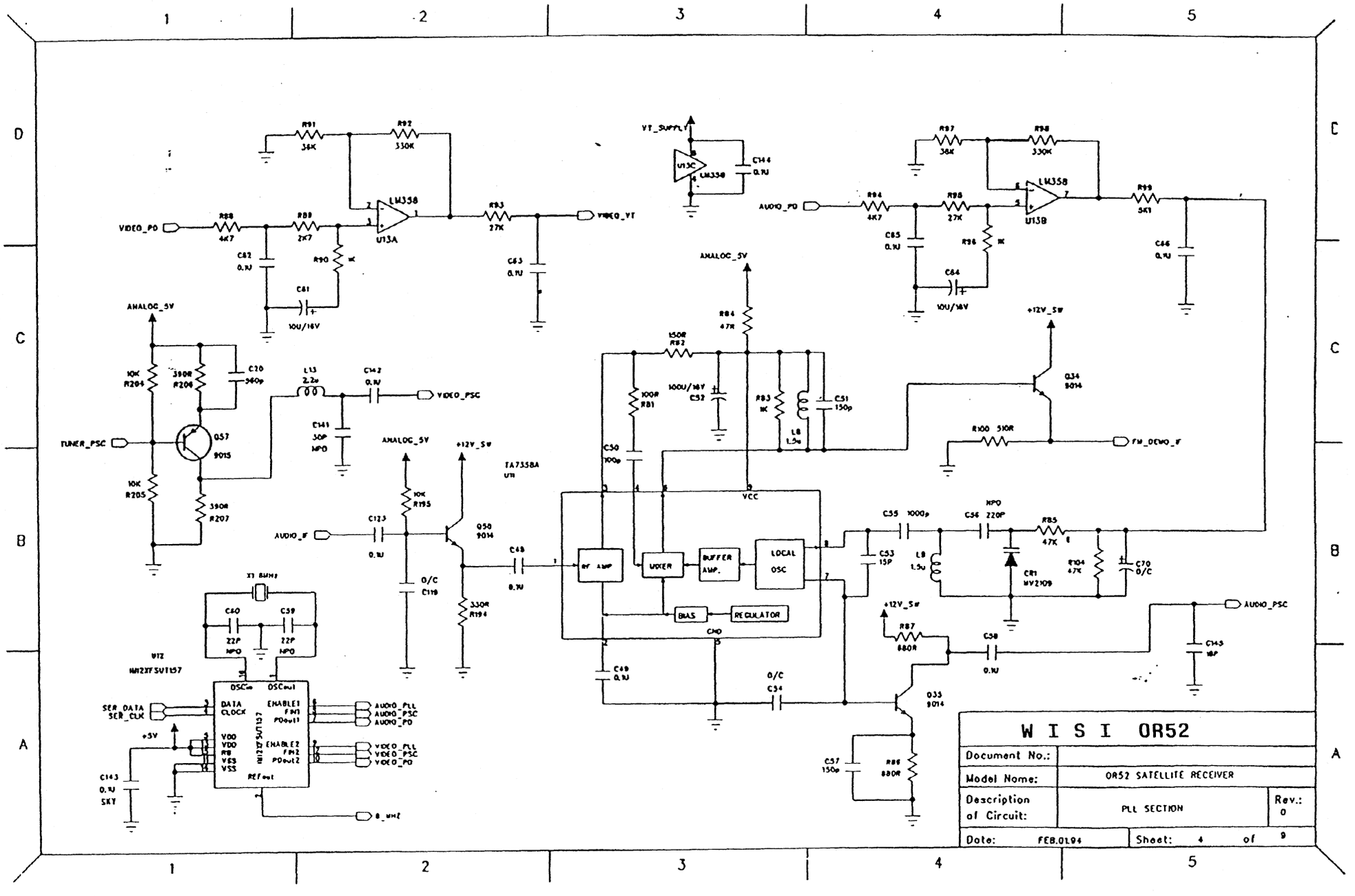


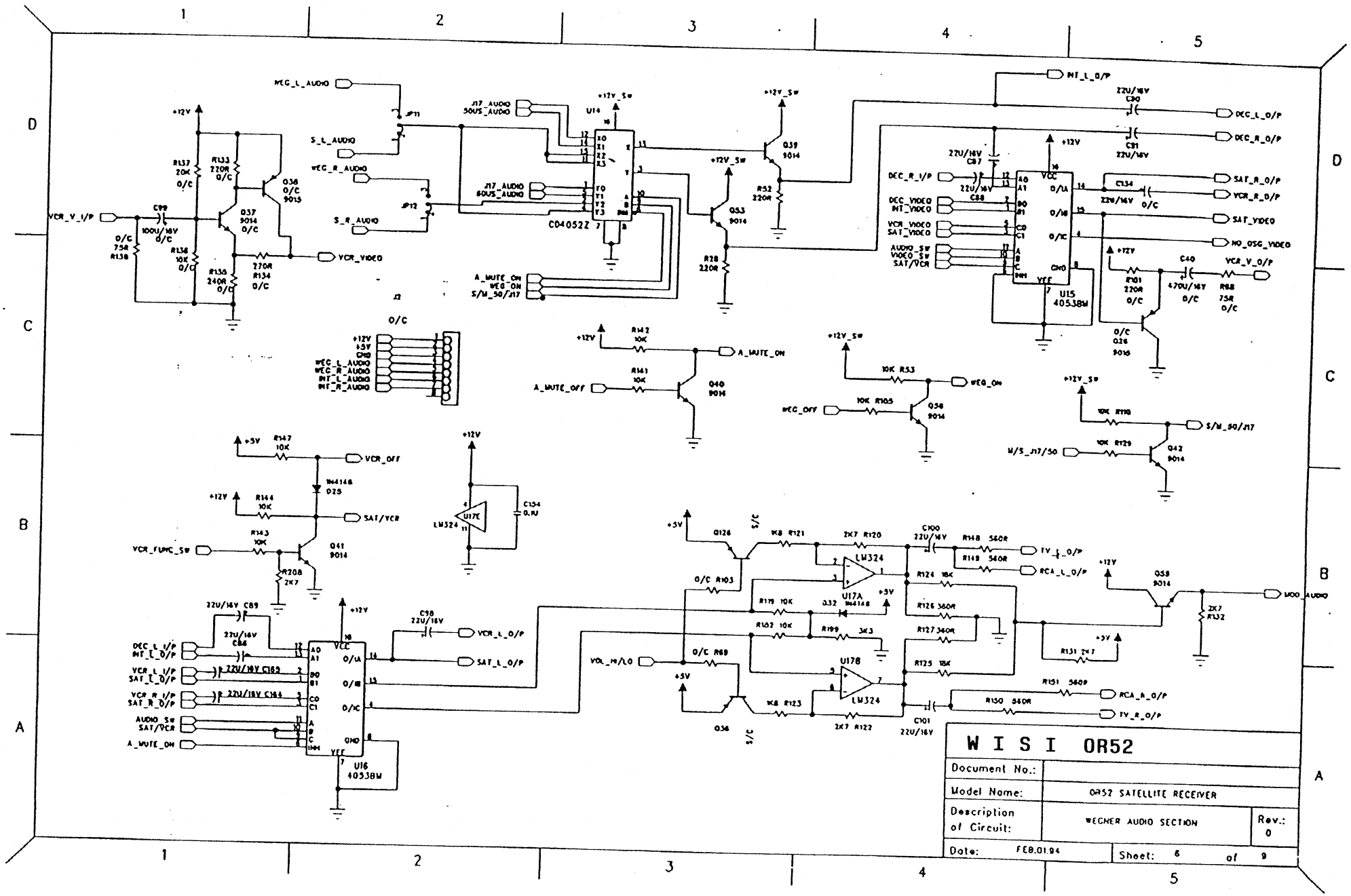
W I S I OR52

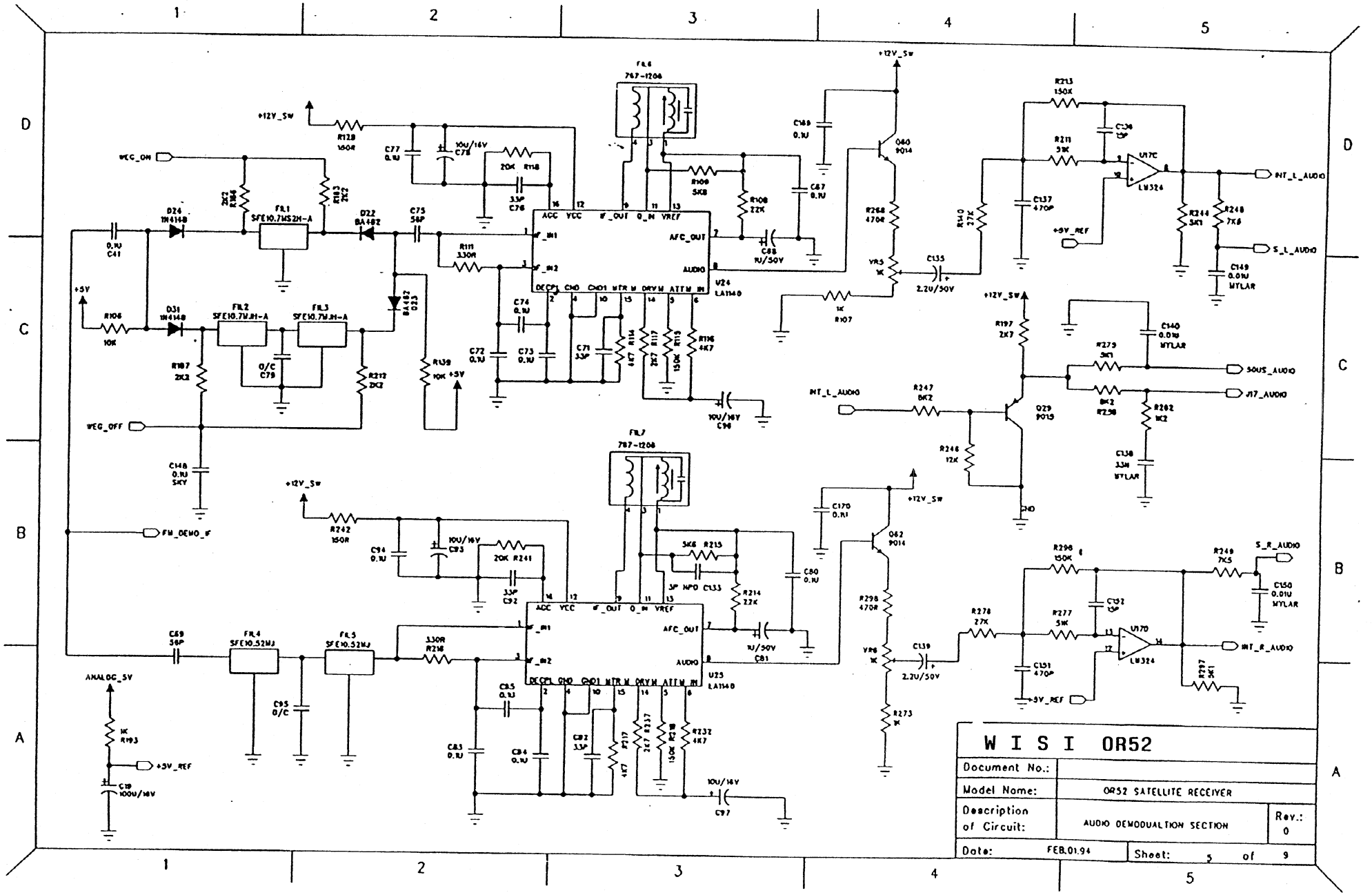
Document No.:			
Model Name:	OR52 SATELLITE RECEIVER		
Description of Circuit:	MCU & CONTROL SECTION		Rev.: 0
Date:	FEB.01.94	Sheet: 2 of 9	

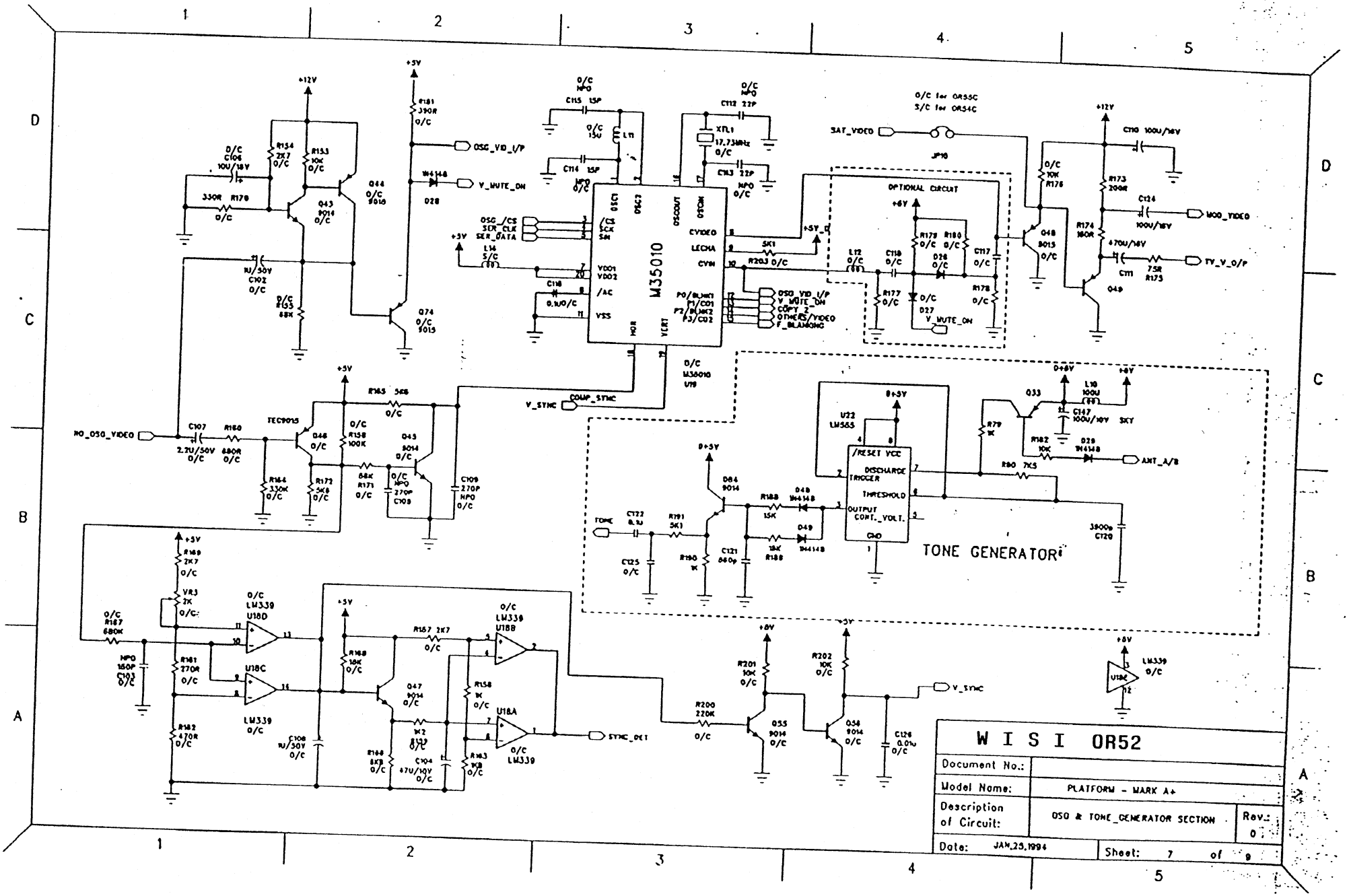

SECONDARY HEADER
AC MAIN HEADER
AC MAINS INPUT 220 - 230 VAC
PRIMARY HEADER
TRANSFORMER PRIMARY
F1 FUSE T 1A
F2 FUSE T 1A
F3 FUSE SHORT
F4 FUSE T 250mA 250V
U1 7805
U2 7812
U3 LM317
+5V
+12V
+12V_SW
+5V_SW
ANALOG_5V
VT_SUPPLY
R_TIME_CLOCK
MOD_B_POWER
AV_ON_LED
AV_ON
LNB_PWR_A
LNB_PWR_B
ANT_A
ANT_B
TONE
LNB_ON/OFF
H/V
S/C C-C
ALL RESISTORS ARE 1/8W 5% UNLESS SPECIFIED
COMPONENTS MARKED WITH ⚠
CAN ONLY BE REPLACED BY THE COMPONENT WITH SAME RATING.
W I S I OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: POWER SUPPLY SECTION
Rev.: 0
Date: FEB.02.94
Sheet: 1 of 9

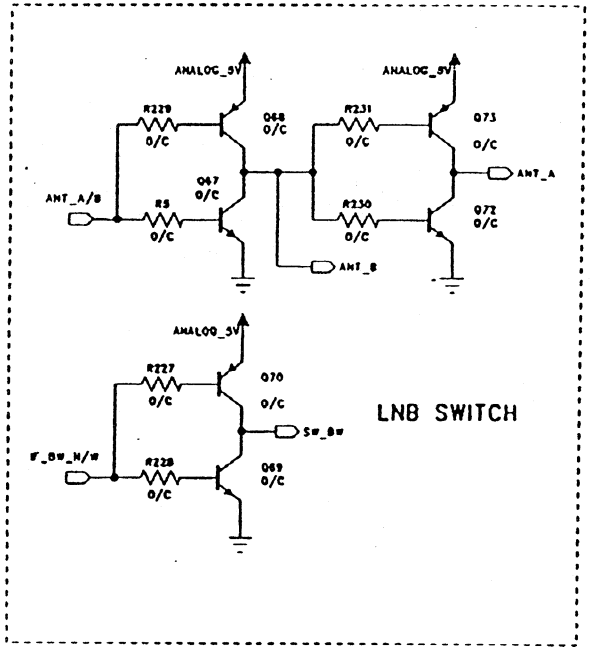

+12V_SW
MAC/PAL
PAL/MAC
INV/HOR
HOR/INV
INV_VIDEO
HOR_VIDEO
AUDIO_O
MAC
PAL
OTHER_VIDEO
INT_VIDEO
COPY_2
CONTRAST_1
INT_VIDEO
+12V
DEC_V_I/P
DEC_VIDEO
DEC_V_O/P
U10
4053BM
W I S I OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: VIDEO PROCESSING SECTION
Rev.: 0
Date: FEB.01.94
Sheet: 3 of 9

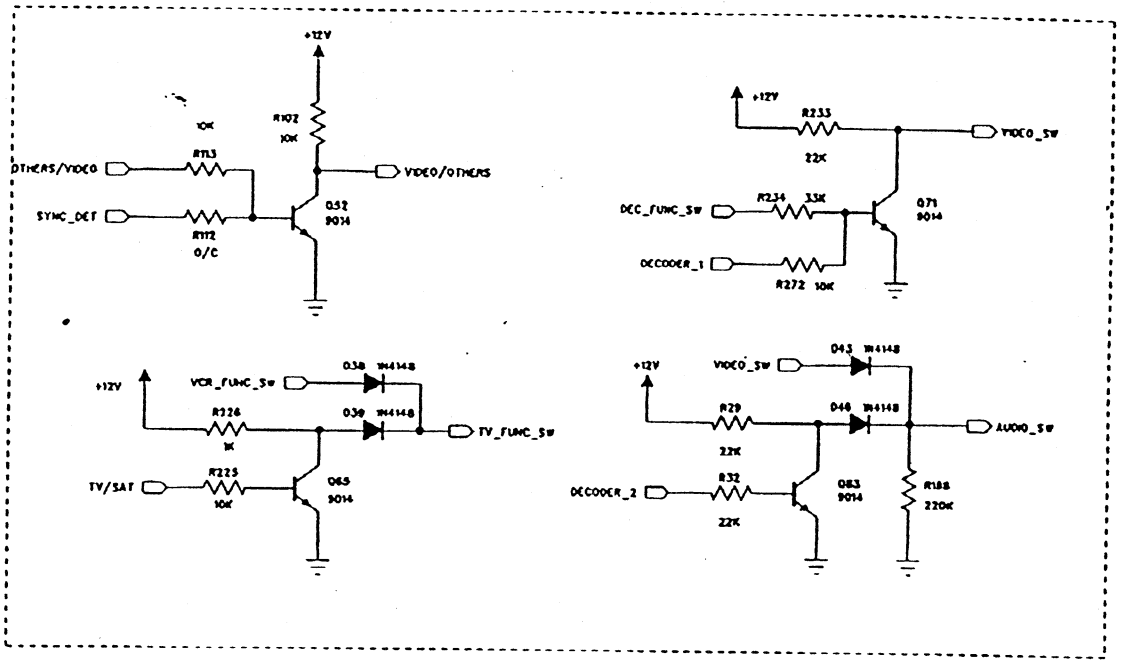

R91 36K
R92 330K
LM358
U13A
VIDEO_PO
R88 4K7
R89 2K7
R90 1K
C82 0.1U
C81 10U/16V
R93 27K
VIDEO_VT
C83 0.1U
VT_SUPPLY
U13C LM358
C144 0.1U
R97 36K
R98 330K
AUDIO_PO
R94 4K7
R95 27K
U13B
R99 5K1
C85 0.1U
R96 1K
C84 10U/16V
C86 0.1U
ANALOG_5V
R84 47K
+12V_SW
Q34 9014
R100 510R
FM_DEMO_IF
R82 150R
C52 100U/16V
R83 1K
L8 1.5u
C51 150p
R81 100R
C50 100p
TUNER_PSC
R204 10K
R206 390R
C20 560p
Q57 9015
R205 10K
R207 390R
L13 2.2u
C142 0.1U
VIDEO_PSC
C141 30P NPO
ANALOG_5V
+12V_SW
R195 10K
AUDIO_IF
C123 0.1U
Q50 9014
C119 O/C
R194 330R
C48 0.1U
TA7358A
U11
VCC
RF AMP
MIXER
BUFFER AMP.
LOCAL OSC
BIAS
REGULATOR
GND
C55 1000p
C56 220P NPO
R85 47K
C53 15P
L8 1.5u
CR1 MV2109
R104 47K
C70 O/C
AUDIO_PSC
+12V_SW
R87 680R
C58 0.1U
C145 18P
C49 0.1U
C54 O/C
Q33 9014
C57 150p
R86 680R
X1 8MHz
C60 22P NPO
C59 22P NPO
U12
MN23FSUT157
OSCin
OSCout
SER_DATA
SER_CLK
DATA
CLOCK
ENABLE1
FM1
PDout1
AUDIO_PLL
AUDIO_PSC
AUDIO_PO
+5V
VDD
VDD
PB
VB3
VSS
ENABLE2
FM2
PDout2
VIDEO_PLL
VIDEO_PSC
VIDEO_PO
REFout
C143 0.1U SKY
8_MHZ
WISI OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: PLL SECTION
Rev.: 0
Date: FEB.01.94
Sheet: 4 of 9

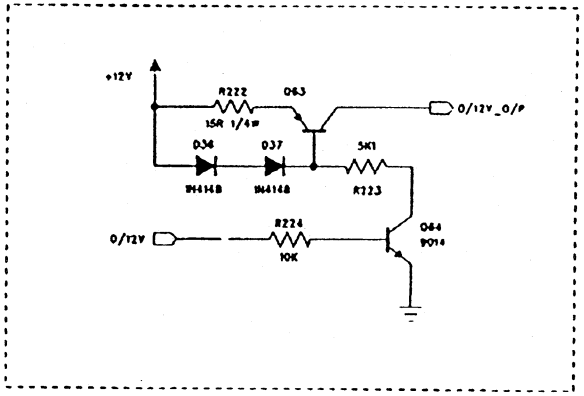

WEG_L_AUDIO
WEG_R_AUDIO
S_L_AUDIO
S_R_AUDIO
VCR_V_I/P
VCR_VIDEO
CD4052BZ
A_MUTE_ON
WEG_ON
S/M_50/J17
INT_L_O/P
DEC_L_O/P
DEC_R_O/P
SAT_R_O/P
VCR_R_O/P
SAT_VIDEO
NO_OSG_VIDEO
VCR_V_O/P
U15
40538M
VCR_OFF
SAT/VCR
VCR_FUNC_SW
VCR_L_O/P
SAT_L_O/P
U16
40538M
VOL_H/LO
LM324
TV_L_O/P
RCA_L_O/P
RCA_R_O/P
TV_R_O/P
MOD_AUDIO
WISI OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: WEGNER AUDIO SECTION
Rev.: 0
Date: FEB.01.94
Sheet: 6 of 9


WISI OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: AUDIO DEMODUALTION SECTION
Rev.: 0
Date: FEB.01.94
Sheet: 5 of 9
+12V_SW
+5V
+5V_REF
ANALOG_5V
WEG_ON
WEG_OFF
FM_DEMO_IF
INT_L_AUDIO
INT_R_AUDIO
S_L_AUDIO
S_R_AUDIO
SOUS_AUDIO
J17_AUDIO
U24 LA1140
U25 LA1140
U17C LM324
U17D LM324
Q40 9014
Q42 9014
Q29 9015
FIL1 SFE10.7MS2H-A
FIL2 SFE10.7MJH-A
FIL3 SFE10.7MJH-A
FIL4 SFE10.52MJ
FIL5 SFE10.52MJ
FIL6 787-1208
FIL7 787-1208

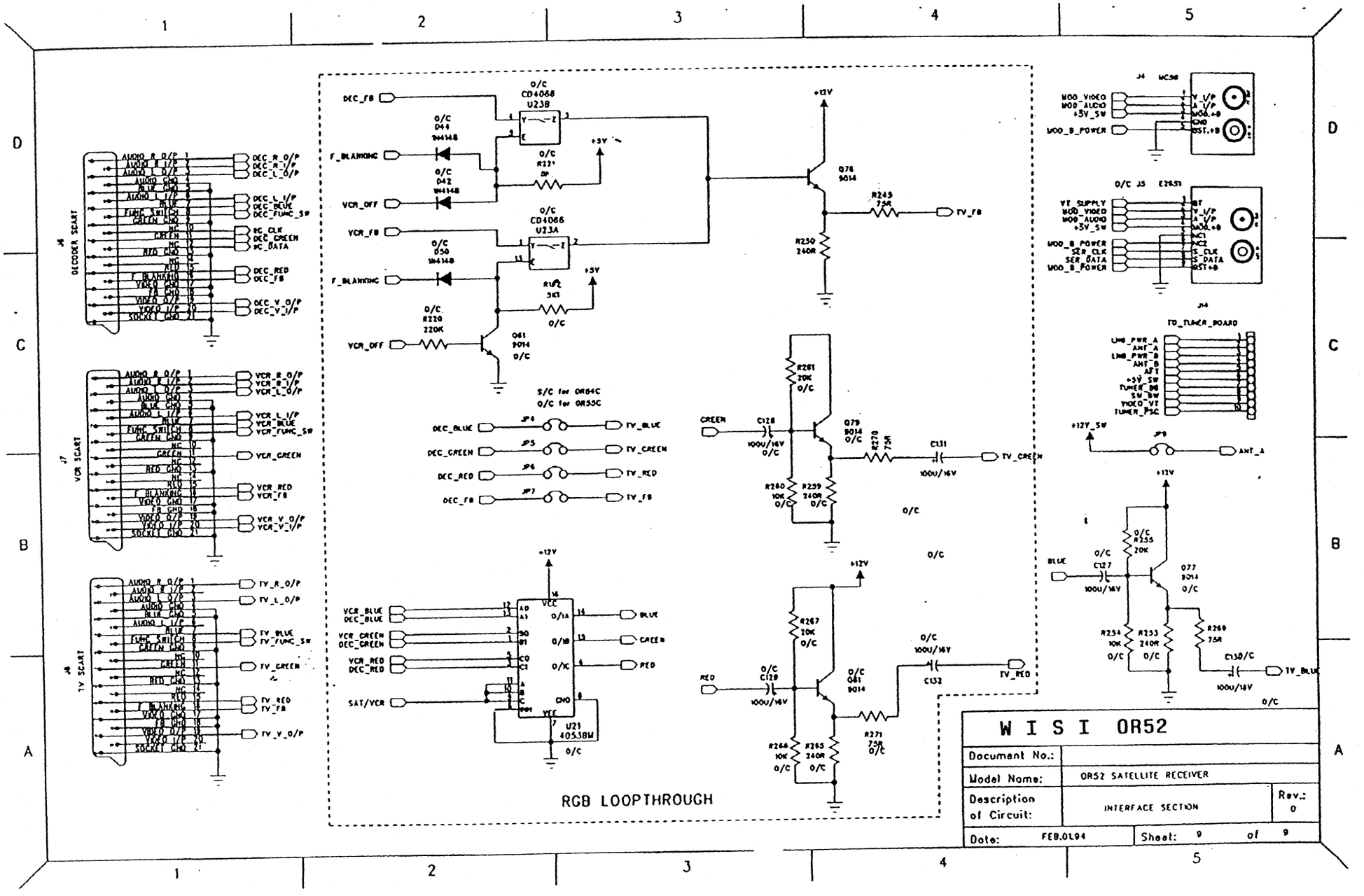

M35010
TONE GENERATOR
OPTIONAL CIRCUIT
SAT_VIDEO
V_SYNC
COMP_SYNC
OSG_VID_I/P
V_MUTE_ON
MOD_VIDEO
TV_V_O/P
ANT_A/B
SYNC_OUT
W I S I OR52
Document No.:
Model Name: PLATFORM - MARK A+
Description of Circuit: OSD & TONE_GENERATOR SECTION
Rev.: 0
Date: JAN.25.1994
Sheet: 7 of 9

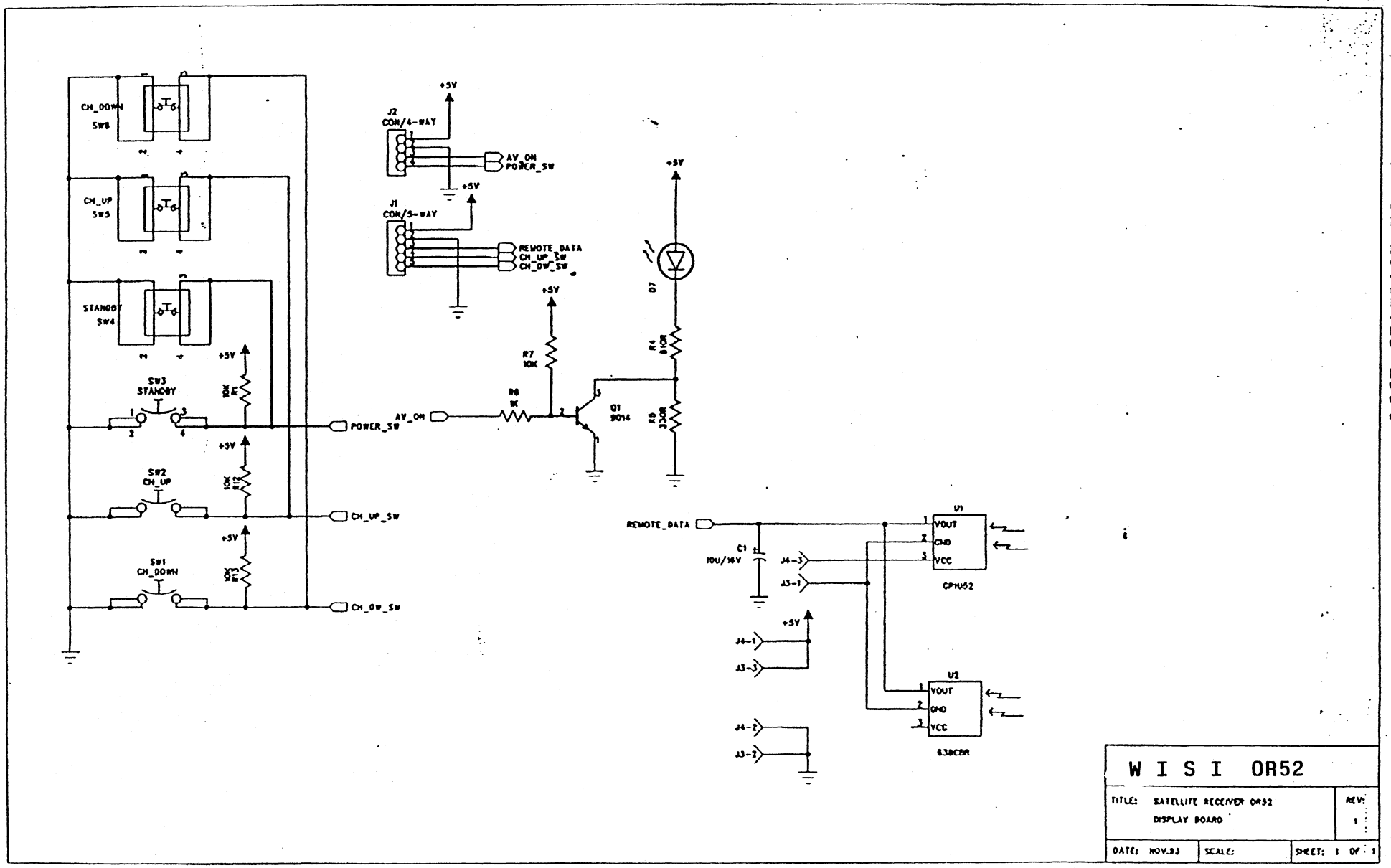






W I S I OR52		
Document No.:		
Model Name:	OR52 SATELLITE RECEIVER	
Description of Circuit:	SWITCHES SECTION	Rev.: 0
Date: FEB.0194	Sheet: 8 of 9	


DECODER SCART
VCR SCART
TV SCART
RGB LOOPTHROUGH
W I S I OR52
Document No.:
Model Name: OR52 SATELLITE RECEIVER
Description of Circuit: INTERFACE SECTION
Rev.: 0
Date: FEB.01.94
Sheet: 9 of 9


CH_DOWN
SW6
CH_UP
SW5
STANDBY
SW4
SW3
STANDBY
SW2
CH_UP
SW1
CH_DOWN
+5V
10K
R12
R13
POWER_SW
CH_UP_SW
CH_DW_SW
J2
CON/4-WAY
AV_ON
POWER_SW
J1
CON/5-WAY
REMOTE_DATA
CH_UP_SW
CH_DW_SW
R7
10K
R6
1K
AV_ON
Q1
9014
D7
R4
R5
REMOTE_DATA
C1
10U/16V
J4-3
J3-1
J4-1
J3-3
J4-2
J3-2
U1
VOUT
GND
VCC
CPH052
U2
838CDR
W I S I OR52
TITLE: SATELLITE RECEIVER OR52
DISPLAY BOARD
REV:
1
DATE: NOV.93
SCALE:
SHEET: 1 OF 1